

PATENT



John M. Belcea

Group Art Unit: 2661

Serial No.: 09/846,480

Examiner: Olms, Douglas W.

Filed: May 2, 2001

**FOR: Time Division Protocol For An Ad-Hoc,
Peer-To-Peer Radio Network Having
Coordinating Channel Access To Shared
Parallel Data Channels With Separate
Reservation Channel**

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INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
Washington, D.C. 20231

Sir:

In accordance with 37 C.F.R. §§1.56 and 1.97-1.98, Applicants request that the Examiner consider the documents listed on the attached PTO-1449 Forms, which may be deemed material to the examination of the above-identified application. All of the documents cited on the attached PTO-1449 Forms are of record in parent application Serial No. 09/815,157, filed March 22, 2001, and therefore, copies of these items are not being provided in accordance with 37 C.F.R. 1.98(d)(2).

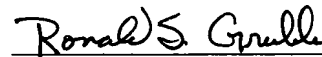
All documents, with the exception of French Patent FR2683326, are in English and require no statement of relevance. Regarding French Patent FR2683326, an English abstract is provided as a brief statement of relevance to the above identified Application as required under

37 C.F.R. § 1.98. Also, since the present Information Disclosure Statement is being filed prior to issuance of a first Office Action on the merits, no certification under 37 C.F.R. §§1.97 (e) or fee under 37 C.F.R. §1.17(b) is required.

The Examiner is requested to consider the attached documents in connection with the above-identified application and to return a copy of Form PTO-1449 to the Applicants with the Examiner's initials in the spaces provided.

Submission of this Information Disclosure Statement does not constitute an admission by the Applicants as to the materiality of the attached documents to the application, nor do the Applicants waive any right to challenge the validity of the documents as prior art should such action be deemed appropriate.

Respectfully submitted,



Ronald S. Grubb
Attorney for Applicant
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Dated: April 7, 2003



Form PTO-1449 DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)	ATTY. DOCKET NO. 43943	SERIAL NO. 09/846,480
	APPLICANT John M. Belcea	
	FILING DATE May 2, 2001	GROUP 2661

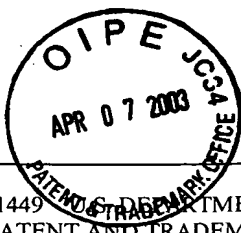
U.S. Patent Documents

Examiner Initial	Patent No.	Date	Patentee	Class	Sub-class	Filing Date
	6,359,872	03/19/2002	Mahany et al.	370	338	10/28/1997
	6,349,210	02/19/2002	Li	455	450	11/03/2000
	6,349,091	02/19/2002	Li	370	238	11/07/2000
	6,327,300	12/04/2001	Souissi et al.	375	219	10/25/1999
	6,304,556	10/16/2001	Haas	370	254	08/24/1998
	6,285,892	09/04/2001	Hulyalkar	455	574	11/24/1998
	6,275,707	08/14/2001	Reed et al.	455	456	10/08/1999
	6,249,516	06/19/2001	Brownrigg et al.	370	338	01/27/2000
	6,246,875	06/12/2001	Seazholtz et al.	455	432	03/26/1999
	6,240,294	05/29/2001	Hamilton et al.	455	456	05/30/1997
	6,223,240	04/24/2001	Odenwald et al.	710	129	01/31/2000
	6,222,463	04/24/2001	Rai	340	928	06/25/1998
	6,208,870	03/27/2001	Lorello et al.	455	466	06/01/1999
	6,192,230	02/20/2001	Van Bokhorst et al.	455	343	09/27/1993
	6,192,053	02/20/2001	Angelico et al.	370	448	09/07/1995
	6,178,337	01/23/2001	Spartz et al.	455	561	06/19/1997
	6,163,699	12/19/2000	Naor et al.	455	453	09/15/1997
	6,132,306	10/17/2000	Trompower	453	11.1	03/29/1996
	6,122,690	09/19/2000	Nannetti et al.	710	102	04/17/1998
	6,115,580	09/05/2000	Chuprun et al.	455	1	09/08/1998
	6,108,738	08/22/2000	Chambers et al.	710	113	06/10/1997
	6,078,566	06/20/2000	Kikinis	370	286	04/28/1998
	6,067,297	05/23/2000	Beach	370	389	06/28/1996
	6,067,291	05/23/2000	Kamerman et al.	370	338	09/23/1997
	6,064,626	05/16/2000	Stevens	365	233	07/31/1998
	6,052,752	04/18/2000	Kwon	710	126	11/14/1996
	6,052,594	04/18/2000	Chuang et al.	455	450	04/30/1997
	6,047,330	04/04/2000	Stracke Jr.	709	238	01/20/1998
	6,044,062	03/28/2000	Brownrigg et al.	370	238	12/06/1996
	6,034,542	03/07/2000	Ridgeway	326	39	10/14/1997
	6,029,217	02/22/2000	Arimilli et al.	710	107	10/03/1994
	5,991,279	12/23/1999	Haugli et al.	370	311	12/04/1996
	5,987,033	11/16/1999	Boer et al.	370	445	09/08/1997

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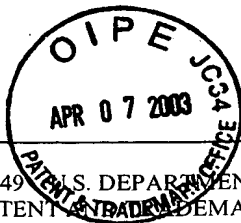
Form PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)	ATTY. DOCKET NO. 43943	SERIAL NO. 09/846,480
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	5,936,953	08/10/1999	Simmons	370	364	12/18/1997
	5,909,651	06/01/1999	Chander et al.	455	466	05/05/1997
	5,903,559	05/11/1999	Acharya et al.	370	355	12/20/1996
	5,896,561	04/20/1999	Schrader et al.	455	67.1	12/23/1996
	5,886,992	03/23/1999	Raatikainen et al.	370	410	04/15/1997
	5,881,372	03/09/1999	Kruys	455	113	12/01/1995
	5,881,095	03/09/1999	Cadd	375	202	05/01/1997
	5,877,724	03/03/1999	Davis	342	357	03/25/1997
	5,870,350	02/09/1999	Bertin et al.	365	233	05/21/1997
	5,857,084	01/05/1999	Klein	395	309	10/02/1996
	5,845,097	12/01/1998	Kang et al.	395	297	06/03/1996
	5,844,905	12/01/1998	McKay et al.	370	443	07/09/1996
	5,822,309	10/13/1998	Ayanoglu et al.	370	315	06/15/1995
	5,809,518	09/15/1998	Lee	711	115	05/20/1996
	5,805,977	09/08/1998	Hill et al.	455	31.3	04/01/1996
	5,805,842	09/08/1998	Nagarajet al.	395	306	09/26/1995
	5,805,593	09/08/1998	Busche	370	396	09/26/1995
	5,796,741	08/18/1998	Saito et al.	370	439	03/05/1996
	5,796,732	08/18/1998	Mazzola et al.	370	362	03/28/1996
	5,794,154	08/11/1998	Bar-On et al.	455	509	07/26/1996
	5,787,080	07/28/1998	Hulyalkar et al.	370	348	06/03/1996
	5,781,540	07/14/1998	Malcolm et al.	370	321	06/30/1995
	5,774,876	06/30/1998	Wooley et al.	705	28	06/26/1996
	5,745,483	04/28/1998	Nakagawa et al.	370	335	09/29/1995
	5,717,689	02/10/1998	Ayanoglu	370	349	10/10/1995
	5,706,428	01/06/1998	Boer et al.	395	200	03/14/1996
	5,701,294	12/23/1997	Ward et al.	370	252	10/02/1995
	5,696,903	12/09/1997	Mahany	395	200.58	04/29/1994
	5,687,194	11/11/1997	Paneth et al.	375	283	04/22/1993
	5,684,794	11/04/1997	Lopez et al.	370	337	01/25/1996
	5,680,392	10/21/1997	Semaan	370	261	01/16/1996
	5,652,751	07/29/1997	Sharony	370	227	03/26/1996
	5,631,897	05/20/1997	Pacheco et al.	370	237	10/01/1993
	5,627,976	05/06/1997	McFarland et al.	395	308	03/20/1995
	5,623,495	04/22/1997	Eng et al.	370	397	06/15/1995
	5,621,732	04/15/1997	Osawa	370	79	04/18/1995
	5,618,045	04/08/1997	Kagan et al.	463	40	02/08/1995
	5,615,212	03/25/1997	Ruszczyk et al.	370	433	02/08/1995

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	5,572,528	11/05/1996	Shuen	370	85.13	03/20/1995
	5,555,540	09/10/1996	Radke	370	16.1	02/17/1995
	5,555,425	09/10/1996	Zeller et al.	395	800	03/07/1990
	5,517,491	05/14/1996	Nanni et al.	370	29	05/05/1995
	5,502,722	03/26/1996	Fulghum	370	69.1	08/01/1994
	5,424,747	06/13/1995	Chazelas	342	70	04/09/1993
	5,412,654	05/02/1995	Perkins	370	94.1	01/10/1994
	5,392,450	02/21/1995	Nossen	455	12.1	01/08/1992
	5,317,566	05/31/1994	Joshi	370	60	08/18/1993
	5,241,542	08/31/1993	Natarajan et al.	370	95.3	08/23/1991
	5,233,604	08/03/1993	Ahmadi et al.	370	60	04/28/1992
	5,231,634	07/27/1993	Giles et al.	370	95.1	12/18/1991
	5,068,916	11/26/1991	Harrison et al.	455	39	10/29/1990
	5,034,961	07/23/1991	Adams	375	130	06/03/1988
	4,910,521	03/20/1990	Mellon	342	45	08/03/1931
	4,747,130	05/24/1988	Ho	379	269	12/17/1985
	4,742,357	05/03/1988	Rackley	342	457	09/17/1986
	4,736,371	04/05/1988	Tejima et al.	370	95	12/29/1986
	4,617,656	10/14/1986	Kobayashi et al.	370	74	01/02/1986
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	Pub. No.	Pub. Date	Patentee	Class	Sub-class	Filing Date
	2001/0053699	12/20/2001	McCrady et al.	455	513	02/06/2001

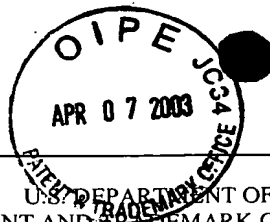
Foreign Patent Documents or Foreign Patent Applications

	Document No.	Publication Date	Country or Patent Office	Class	Sub-class	Translation	
						Yes	No
	EP 0513841 A2	11/19/1992	EPO			X	
	EP 0924890 A2	06/23/1999	EPO			X	
	EP 0627827 A2	12/07/1994	EPO			X	
	WO 9912302	03/11/1999	WIPO			X	
	WO 9839936	09/11/1998	WIPO			X	

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	FILING DATE May 2, 2001	GROUP 2661

Foreign Patent Documents or Foreign Patent Applications

	Document No.	Publication Date	Country or Patent Office	Class	Sub-class	Translation	
						Yes	No
	WO 9724005	07/03/1997	WIPO			X	
	WO 9608884	03/21/1996	WIPO			X	
	WO 0235253	05/02/2002	WIPO			X	
	WO 0137483	05/25/2001	WIPO			X	
	WO 0137482	05/25/2001	WIPO			X	
	WO 0137481	05/25/2001	WIPO			X	
	WO 0135567	05/17/2001	WIPO			X	
	WO 0133770	05/10/2001	WIPO			X	
	WO 0110154	02/08/2001	WIPO			X	
	WO 0034932	06/15/2000	WIPO			X	
	CA 2132180	03/16/1996	Canada			X	
	FR 2683326	07/05/1993	France				X

Other Documents (including Author, Title, Date, Pertinent Pages, etc.)

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
		Wong et al., "Soft Handoffs in CDMA Mobile Systems", December 1997, IEEE Personal Communications
		Wong et al., "A Pattern Recognition System for Handoff Algorithms", July 2000, IEEE Journal on Selected Areas in Communications, vol. 18, no. 7
		Andras G. Valko, "Cellular IP: A New Approach to Internet Host Mobility", January 1999, ACM Computer Communication Review
		Richard North, Dale Bryan and Dennis Baker, "Wireless Networked Radios: Comparison of Military, Commercial, and R&D Protocols", February 28-March 3, 1999, 2 nd Annual UCSD Conference on Wireless Communications, San Diego CA
		Benjamin B. Peterson, Chris Kmiecik, Richard Hartnett, Patrick M. Thompson, Jose Mendoza and Hung Nguyen, "Spread Spectrum Indoor Geolocation", August 1998, Navigation: Journal of the Institute of Navigation, vol. 45, no. 2, summer 1998

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LIST OF PATENTS AND PUBLICATIONS FOR
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43943

SERIAL NO.

09/846,480

APPLICANT

John M. Belcea

FILING DATE

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REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

EXAMINER REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AA	5 9 4 3 3 2 2	8/99	Mayor, et al.	370	280	
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FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
AL					
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OTHER

ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	"A Review of Current Routing Protocols for Ad-Hoc Mobile Wireless Networks", Royer, et al., Univ. of Calif.
AS	"The Dynamic Source Routing Protocol for Mobile Ad Hoc Networks", IETF MANET Working Group; Josh Broch, et al., 12/98.
AT	"Ad hoc On-Demand Distance Vector Routing draft-ietf-manet- aodv-08.txt", Mobile Ad Hoc Networking Working Group, Charles E. Perkins, et al., March 2, 2001.

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U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
							YES NO
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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	"Optimized Link State Routing Protocol", IETF MANET Working Group, Philippe Jacquet, et al, September 2, 2001
AS	"The Dynamic Source Routing for Mobile Ad Hoc Networks", IETF MANET Working Group, David B. Johnson, et al., March 2, 2001
AT	

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REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

EXAMINER RTVL		DOCUMENT NUMBER							DATE	NAME	CASE	SUBCASE	FILED DATE IF APPROPRIATE
	AA	5	5	3	3	0	2	6	7/96	Ahmadi, et al.	370	94	
	AB	5	6	4	4	5	7	6	7/97	Bauchot, et al.	370	437	
	AC	5	7	4	8	6	2	4	5/98	Kondo	370	347	
	AD	5	7	8	7	0	7	6	7/98	Anderson, et al.	370	294	
	AE	5	9	8	7	0	1	1	11/99	Toh	370	331	
	AF	6	0	1	6	3	1	1	1/00	Gilbert, et al.	370	280	
	AG	6	0	2	8	8	5	3	2/00	Haartsen	370	338	
	AH	6	0	2	9	0	7	4	2/00	Irvin	455	571	
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	AJ	6	0	8	8	3	3	7	7/00	Eastmond, et al.	370	280	
	AK	6	0	9	7	7	0	4	8/00	Jackson, et al.	370	280	

FOREIGN PATENT DOCUMENTS

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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	A	"Topology Control of Multihop Wireless Networks using Transmit Power Adjustment", by Ram Ramanathan and Regina Rosales-Hain; BBN Technologies (Division of GTE), Cambridge, Mass. 1997.
	A	"Reversing the Collision-Avoidance Handshake in Wireless Networks" by J.J. Garcia-Luna-Aceves and Asimakis Tzamaloukas; Baskin School of Engineering, University of California, Santa Cruz, 1997
E	AI	"Self-Organizing, Self-Healing Wireless Networks", by Chip Elliot and Bob Helle; BBN Technologies, Cambridge, Mass;
		IEEE, 2000

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	M	6	1	0	4	7	1	2	8/00	Robert, et al.	370	389	
	M	6	1	0	8	3	1	6	8/00	Agrawal, et al.	370	311	
	M	6	1	3	0	8	8	1	10/00	Stiller, et al.	370	238	
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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	M	"A Performance Comparison of Multi-Hop Wireless Ad Hoc Network Routing Protocols", by Josh Broch, et al., Carnegie Mellon University, Pittsburgh, Pa., Proceedings of the Fourth Annual ACM/IEEE International Conference on Mobile Computing and Networking, 1998.
	M	"USAP: A Unifying Dynamic Distributed Multichannel TDMA Slot Assignment Protocol", by C. David Young, Rockwell International, Richardson, Texas
	M	"Net Throughput with IEEE 802.11 Wireless LANs", by Ad Karmann and Guido Aben, Lucent Tech., Nieuwegein, The Netherlands

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FOREIGN PATENT DOCUMENTS

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					YES NO
A					
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E					

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

A	"Transmission-Efficient Routing in Wireless Networks Using Link-State Information", by J.J. Garcia-Luna-Aceves, Baskin School of Engineering, University of California, Santa Cruz; 1997.
B	"The Core-Assisted Mesh Protocol", by J.J. Garcia-Luna-Aceves and Ewerton L. Madruga, Baskin School of Engineering, University of California, Santa Cruz; 1997.
AT	"Optimization of an Adaptive Link Control Protocol for Multimedia Packet Radio Networks", by J.R. McChesney, et al.; ITT Industries Aerospace Comm. Div.; Ft. Wayne, IN; 1997

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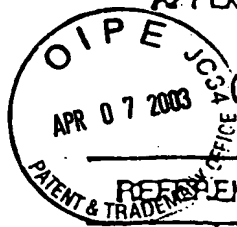
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LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENT

APPLICANT

John M. Belcea

FILING DATE

5/2/2001

GROUP

2661

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(Use several sheets if necessary)



REFERENCE DESIGNATION

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